SEQUENCE LISTING

<110> Higuchi, Maria de Lourdes
Schenkman, Sergio

<120> PREVENTION AND TREATMENT OF
MYCOPLASMA-ASSOCIATED DISEASES

<130> 33474-PCT-USA-A 068528.0103

<140> Not Yet Assigned
<141> 2002-01-03

<150> PCT/BR01/00083
<151> 2001-03-07

<150> Not Yet Assigned
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<150> PI 0002989-0 BR
<151> 2000-03-07

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 2010
<212> DNA
<213> Artificial Sequence

<220>
<223> Variant of T. Cruzi trans-sialidase gene

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<210> 2
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<212> PRT
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<220>
<223> Variant of T. Cruzi trans-sialidase protein

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Arg Val Val His Ser Phe Arg Leu Pro Ala Leu Val Asn Val Asp Gly
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Val Met Val Ala Ile Ala Asp Ala Arg Tyr Glu Thr Ser Asn Asp Asn
65   70   75   80
Ser Leu Ile Asp Thr Val Ala Lys Tyr Ser Val Asp Asp Gly Glu Thr
                85   90   95
Trp Glu Thr Gln Ile Ala Ile Lys Asn Ser Arg Ala Ser Ser Val Ser
            100   105   110
Arg Val Val Asp Pro Thr Val Ile Val Lys Gly Asn Lys Leu Tyr Val
        115   120   125
Leu Val Gly Ser Tyr Asn Ser Ser Arg Ser Tyr Trp Thr Ser His Gly
    130   135   140
Asp Ala Arg Asp Trp Asp Ile Leu Leu Ala Val Gly Glu Val Thr Lys
145   150   155   160
Ser Thr Ala Gly Gly Lys Ile Thr Ala Ser Ile Lys Trp Gly Ser Pro
                165   170   175
Val Ser Leu Lys Glu Phe Phe Pro Ala Glu Met Glu Gly Met His Thr
            180   185   190
Asn Gln Phe Leu Gly Gly Ala Gly Val Ala Ile Val Ala Ser Asn Gly
        195   200   205
Asn Leu Val Tyr Pro Val Gln Val Thr Asn Lys Lys Lys Gln Val Phe
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Ser Lys Ile Phe Tyr Ser Glu Asp Glu Gly Lys Thr Trp Lys Phe Gly
225   230   235   240
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Glu Gly Lys Leu Ile Ile Asn Thr Arg Val Asp Tyr Arg Arg Arg Leu
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Thr Leu Ser Arg Val Trp Gly Pro Ser Pro Lys Ser Asn Gln Pro Gly
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Ser Gln Ser Ser Phe Thr Ala Val Thr Ile Glu Gly Met Arg Val Met
305                 310                 315                 320
Leu Phe Thr His Pro Leu Asn Phe Lys Gly Arg Trp Leu Arg Asp Arg
                325                 330                 335
Leu Asn Leu Trp Leu Thr Asp Asn Gln Arg Ile Tyr Asn Val Gly Gln
            340                 345                 350
Val Ser Ile Gly Asp Glu Asn Ser Ala Tyr Ser Ser Val Leu Tyr Lys
        355                 360                 365
Asp Asp Lys Leu Tyr Cys Leu His Glu Ile Asn Ser Asn Glu Val Tyr
    370                 375                 380
Ser Leu Val Phe Ala Arg Leu Val Gly Glu Leu Arg Ile Ile Lys Ser
385                 390                 395                 400
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Thr Pro Ala Asp Pro Ala Ala Ser Ser Ser Glu Arg Gly Cys Gly Pro
            420                 425                 430
Ala Val Thr Thr Val Gly Leu Val Gly Phe Leu Ser His Ser Ala Thr
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Lys Thr Glu Trp Glu Asp Ala Tyr Arg Cys Val Asn Ala Ser Thr Ala
    450                 455                 460
Asn Ala Glu Arg Val Pro Asn Gly Leu Lys Phe Ala Gly Val Gly Gly
465                 470                 475                 480
Gly Ala Leu Trp Pro Val Ser Gln Gln Gly Gln Asn Gln Arg Tyr His
                485                 490                 495
Phe Ala Asn His Ala Phe Thr Leu Val Ala Ser Val Thr Ile His Glu
            500                 505                 510
Val Pro Ser Val Ala Ser Pro Leu Leu Gly Ala Ser Leu Asp Ser Ser
        515                 520                 525
Gly Gly Lys Lys Leu Leu Gly Leu Ser Tyr Asp Glu Lys His Gln Trp
    530                 535                 540
Gln Pro Ile Tyr Gly Ser Thr Pro Val Thr Pro Thr Gly Ser Trp Glu
545                 550                 555                 560
Met Gly Lys Arg Tyr His Val Val Leu Thr Met Ala Asn Lys Ile Gly
                565                 570                 575
Ser Val Tyr Ile Asp Gly Glu Pro Leu Glu Gly Ser Gly Gln Thr Val
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Val Pro Asp Gly Arg Thr Pro Asp Ile Ser His Phe Tyr Val Gly Gly
        595                 600                 605
Tyr Gly Arg Ser Asp Met Pro Thr Ile Ser His Val Thr Val Asn Asn
    610                 615                 620
Val Leu Leu Tyr Asn Arg Gln Leu Asn Ala Glu Glu Ile Arg Thr Leu
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<223> Trans-sialidase gene primer

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<220>
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